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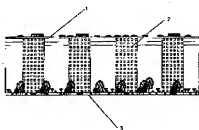
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[54]发明名称 建筑与交通系统

[57]摘要

本发明是一种用于城市或集中居住区或高速公路的
建筑与交通系统设计方案,该种建筑与交通系统是将建
筑物的顶部连接在一起并构成公路,并在建筑物地下构
建地下公路和地铁将其连接在一起,上述两类公路可同
时与地面公路网或地铁网相通。这样就将建筑物与公
路结合成为一体。另外,还可以在建筑物的顶部侧面设
置了高架列车通道。本发明与现有建筑格局相比具有可
充分地利用地上和地下的空间,节省土地资源,最大限
度地保留人类活动的空间和环境空间的优点。



权 利 要 求 书

1. 一种建筑与交通系统, 其特征在于: 将建筑物的顶部连接在一起并构成公路, 并在建筑物地下构建地下公路和地铁将其连接在一起, 上述两类公路可同时与地面公路网或地铁网相通。

2. 根据权利要求 1 所述的建筑与交通系统, 其特征在于: 在建筑物的顶部侧面可设置高架列车通道。

3. 根据权利要求 1 所述的建筑与交通系统, 其特征在于: 在建筑物地下构建的部分可分为二至三层, 地下公路可设置在建筑物的正下方底部或其侧面。

4. 根据权利要求 1 或 3 所述的建筑与交通系统, 其特征在于: 建筑物的地下构建部分中, 地下公路设置在建筑物的侧面时, 建筑物的正下方地下可建筑停车场, 当地下公路设置在建筑物的正下方地下时, 侧停车场建筑在建筑物的侧面, 而地铁则设置在停车场的正下方。

说 明 书

建 筑 与 交 通 系 统

本发明是一种用于城市或集中居住区或高速公路的建筑与交通系统设计方案,它从根本上改变了人们目前在建筑与交通总体设计上的思路,提出了一种全新的将建筑与交通结合在一起的设计理念,大大提高了系统的空间利用率和使用功能。

从人类建筑的发展历程来看,建筑物的主要功能是给人们提供了一个遮风挡雨固定居所,而道路侧是为人们提供了从一个地方到另一个地方快捷方便的工具。所以,道路和建筑物总是分开建成的,这个基本的方法一直沿续到现在。目前,虽然人们在修建建筑物或一个城市时,会同时考虑道路的建设,但就设计方案来说,它们两者是分开设计的,是一个平面结构形式,它所造成的后果是,空间利用率不高,浪费了大量的土地资源,限制和破坏了人类居住的环境并给城市今后的发展造成了困难,同时也给人们的出行带来了不方便,这些都是我们今天所面临的急待解决的问题。

本发明的目的正是针对上述人类社会发展中所存在的问题而设计提供一种新型的用于城市或集中居住区或高速公路的建筑与交通系统设计方案,它从根本上改变了人们目前在建筑与交通总体设计上的思路,提出了一种全新的将建筑与交通结合在一起的设计理念,大大提高了系统的空间利用率和使用功能。

本发明的目的是通过以下措施来实现的:

该种建筑与交通系统,其系统设计特征是将建筑物与公路两者合一进行总体设计,在充分实现两者的功能基础上,最大限度地利用地上和地下的空间,节省土地资源,最大限度地保留人类活动的空间和环境空间,具体地说是将建筑物的顶部连接在一起并构成公路,并在建筑物地下构建地下公路和地铁将其连接在一起,上述两类公路可同时与地面公路网或地铁网相通。这样就将建筑物与公路结合成一体,极大地方便了人类的活动。另外,还可以在建筑物的顶部侧面设置了高架列车通道。而建筑物的地下构建的部分可分为二至三层,而地下公路可设置在建筑物的正下方底部或其侧面。

附图的图面说明如下:

图 1 为本发明系统的设计方案示意图

图 2-4 为图 1 所示的本发明系统的剖视图

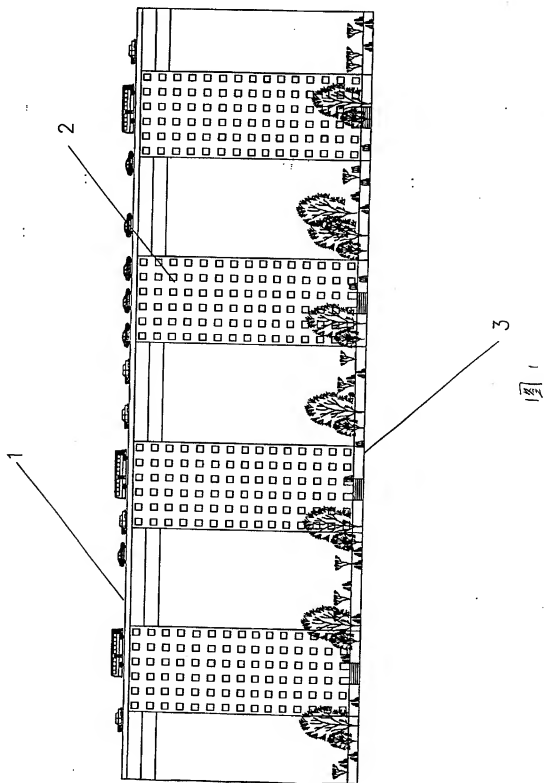
图 5-6 为图 1 所示的本发明系统的俯视图

以下将结合附图和实施例对本发明系统作进一步地详述:

参见附图 1-6 所示, 该种建筑与交通系统是将建筑物 2 的顶部连接在一起并构成公路 1, 这样车辆就可以在空中从一栋建筑行驶到另一栋建筑, 建筑物的类型可以是办公楼、居民住宅、仓库和工厂车间等或各种功能的建筑物。同时, 在建筑物 2 的地表 3 以下还构建了地下公路 7 和地铁 5, 将各类建筑也连接在一起, 这两类公路可同时与地面公路网或地铁网相通。另外, 在建筑物 2 的顶部侧面还设置了高架列车通道 4。在建筑物 2 的地表 3 以下构建的部分可分为二至三层。而地下公路 7 可设置在建筑物地面 3 的正下方底部或侧面。当建筑物的地下构建部分中地下公路 7 设置在建筑物的侧面时, 如图 2 所示, 建筑物的正下方地下可建筑停车场 9, 当地下公路 7 设置在建筑物的正下方地下时, 如图 3, 4 所示, 侧停车场 9 建筑在建筑物 2 的侧面, 而地铁 5 则总是设置在停车场 9 的正下方, 这样可以方便人们出行的需要。在建造建筑的同时, 还可以将市政管道 8、绿化带 10 等设施一起完成。参见附图 5, 6 所示, 可用这种系统设计方案将各个集中居住区连接起来并构成一个完整的社区结构以充分实现本发明系统的综合优势。

本发明与现有建筑格局相比具有可充分地利用地上和地下的空间, 节省土地资源, 最大限度地保留人类活动的空间和环境空间的优点。

说明书附图



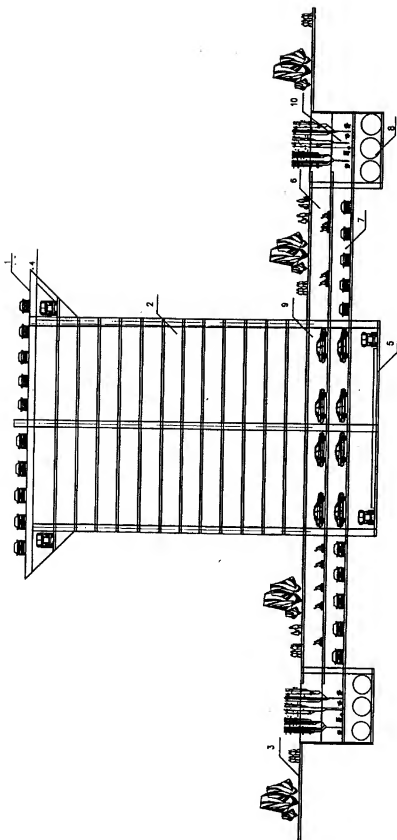


图 2

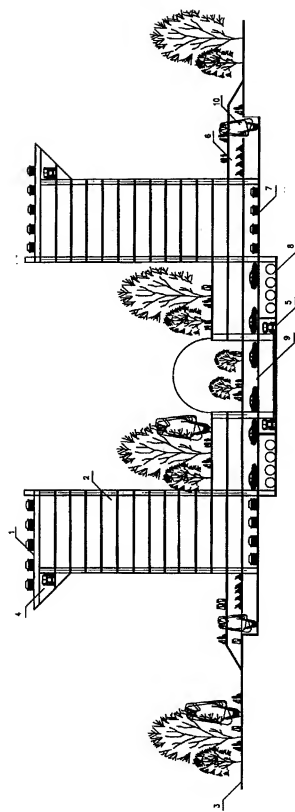
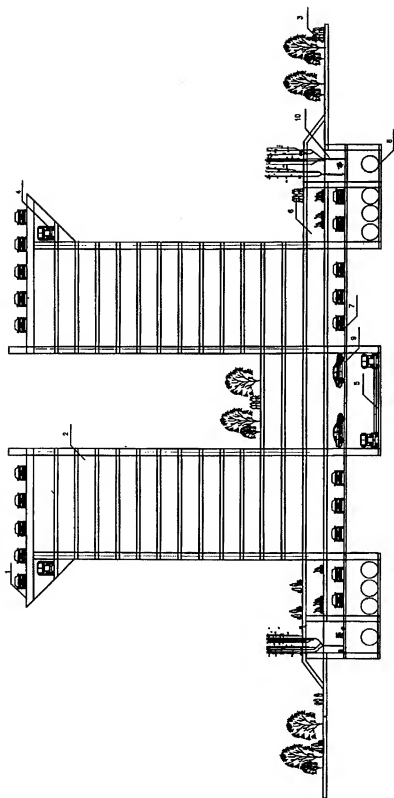


圖 3



15 4

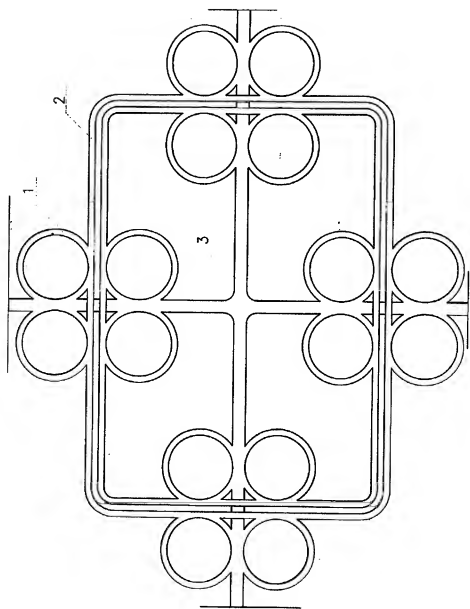
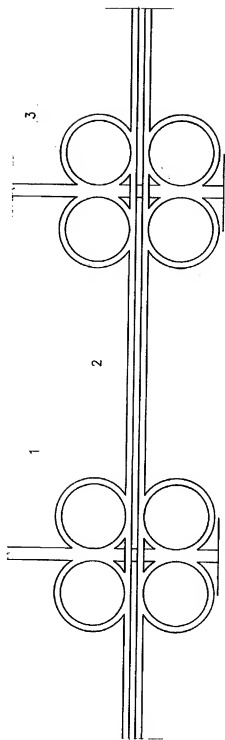


图 5



6

BUILDING AND TRAFFIC SYSTEM

The present invention is a designing idea used to urban area or concentrate housing area or highway construction and traffic system. It changes the thinking way in which people design the building and the traffic system basically. Put forward a designing idea of combining the buildings and the traffic system together. Largely enhance the utilized ratio of area and function of the system.

In view of the history of the humanity construction, the main function of the building is to supply a place where people can seek shelter from the rain and wind, and roads is a tool with which people can go from one place to another. So roads and buildings are always built up dividedly, this basic way has been used till now. Although in nowadays, when people design buildings or one city, the designing of the road can be considered, the two part are designed apart on the designing idea level, the idea is a one plane form. Its sequent is low utilization of the area, wasting lots of land resources, confining and destroying the living environment, difficulties in the development of the city, and the inconvenience for people to go out. These problems in front of us need to be solved urgently.

This invention is aimed at the above problems which are suffered by humanity socioeconomic development, it is one designing idea which can be used to urban area or concentrate housing area or highway construction and traffic system. It changes the thinking way in which people design buildings and traffic system basically. Put forward a designing idea of combining the buildings and the traffic system together. Largely enhance the utilized ratio of area and function of the system.

The aims of this invention can be got in these ways:

The character of this building and road system is to design them together, maximize the utilization of the area on the ground and underground under the condition that the function of them can be fully utilized, save land resources, maximize the living area and living environment to people. In some details, this idea is to connect tops of buildings to conform roads and construct underground road and subway under buildings and connect them together, the two kind of roads can be connected to the roads on the ground and the subway system, in this way, buildings and roads can be combined together, make the

human activity conveniently. In addition, elevated railways can be built on the side or on the top of buildings. The underground part of the building can be formed to two to three layers, the underground roads can be located right under the bottom of the building or on the side of the building.

These are the figures to improve the explanation:

Fig. 1 is a schematic perspective view illustrating this invention

Fig. 2-4 are the cutaway view according to Fig. 1.

Fig. 5-6 are the overhead view according to Fig. 1.

Next we illustrate this invention in details according to the figures and examples:

According to figure 1-6, this kind of building and traffic system is to connect the tops of the buildings 2 to construct the roads 1, in this way cars can go in the sky from one building to another. The buildings can be office buildings, living buildings, storehouses and factories et al. and other kinds of buildings. Meanwhile, under the ground surface 3 of building 2 construct the road 7 and the subway 5, also they can connected the buildings. The two kinds of roads can be connected to the roads on the surface of the ground and the subways. In addition, on the top and on the side of the building locates elevated railway passage 4. There are 2 to three layers under the ground surface 3 of the building 2. The underground road 7 can located right under the ground 3 of the bottom of the building or on its side. In the underground part, if the road 7 is located on the side of the building, figure 2, the underground parking area 9 can be located right under the building. If the underground road 7 is located right under the building, figure 3, 4, the parking area 9 can be located on the side of the building 2,

The subway 5 is always located right under the parking area 9, in this way, people can go out conveniently. While constructing the buildings, the municipal pipelines 8, the greenbelt 10 and so on can be constructed too. Like figure 5, 6, using this designing idea, many concentrate housing area can be connected together to form one intact community, so the advantage of this invention can be represented.

Compared to the present construction idea being used now, this invention can maximize the utilization of the area on and under ground, save more land resources, save the area of living activity and environment mostly.

Claims:

1. A sort of construction and traffic system, its characteristic consist: connect the top of the buildings to constitute roads, and compose roads and subway in the underground of the building, the roads underground and the subway can be connected together, the two kinds of road mentioned above can be connected to the roads on the surface of the ground and the subway system.
2. The buildings and traffic system according to claim 1, its characteristic is: arrange elevated railway passage on the side or on the top of the buildings.
3. The buildings and traffic system according to claim 1 ,its characteristic is: the part under the building consists two or three layers, the underground roads are located right under the bottom of the building or on the side of it.
4. The building and traffic system according to claim 1 or claim 3, its characteristic is: in the underground part of the building, if the underground roads are located on the side of the building, right under the building locate the parking area. If the underground roads are located right under the building, the parking area is located on the side of the building, and the subway is located right under the parking area.

Abstract

A design scheme for building and traffic system suitable for city or centralized residential area or expressway features that the roofs of buildings are serially connected together to form highway and the underground road or subway is built under the buildings. Said highway and underground road are communicated with the highway on the land. Its advantage is to save ground resource.